

# WASTEWATER TREATMENT FACILITY CONSENT AGREEMENT UPDATE





Town Council Meeting June 30, 2015

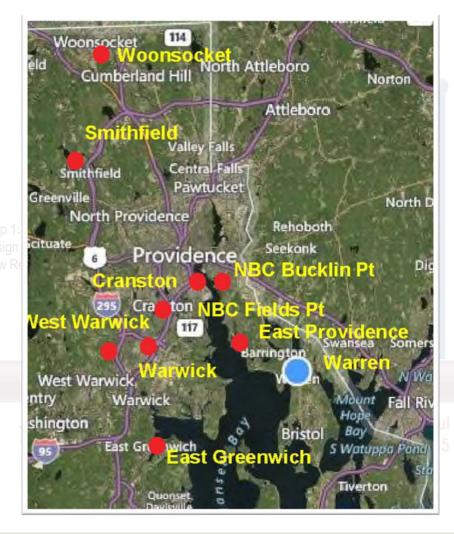
### **Project Timeline Engineering Design Experience O&M** Experience and Mindset **Seamless Approach to Cost-Effective** Solution for Warren, RI RI Permitting & Regulations PERMIT & CONSENT AGREEMENT Partnering with Town & Operations Team Consent **Agreement** Draft **Permit** Jan 2010 **Sept 2011** Aug 2013 Jul 2015 **COMMITMENT & INTEGRITY DRIVE RESULTS**

#### **Project Timeline** PERMIT & CONSENT AGREEMENT Step 4: Start Design Step 3: **Public Hearing** Step 2: and Final Facility Permit Plan Modification Consent Step 1: Agreement Final Design Permit Flow Report Draft **Permit** Sep Sep Aug Jun Nov Jul Jan Jan **'10** 41 **'13** '14 '14 **'15 '10** 2011 2013 2014 2015 2012 2010 **COMMITMENT & INTEGRITY DRIVE RESULTS**

### Why was a Nitrogen Limit Issued?

- Water quality & fish kills
- 2004 mandate for 50% reduction
- RI and Mass facilities
- DEM nitrogen load study on the Palmer River

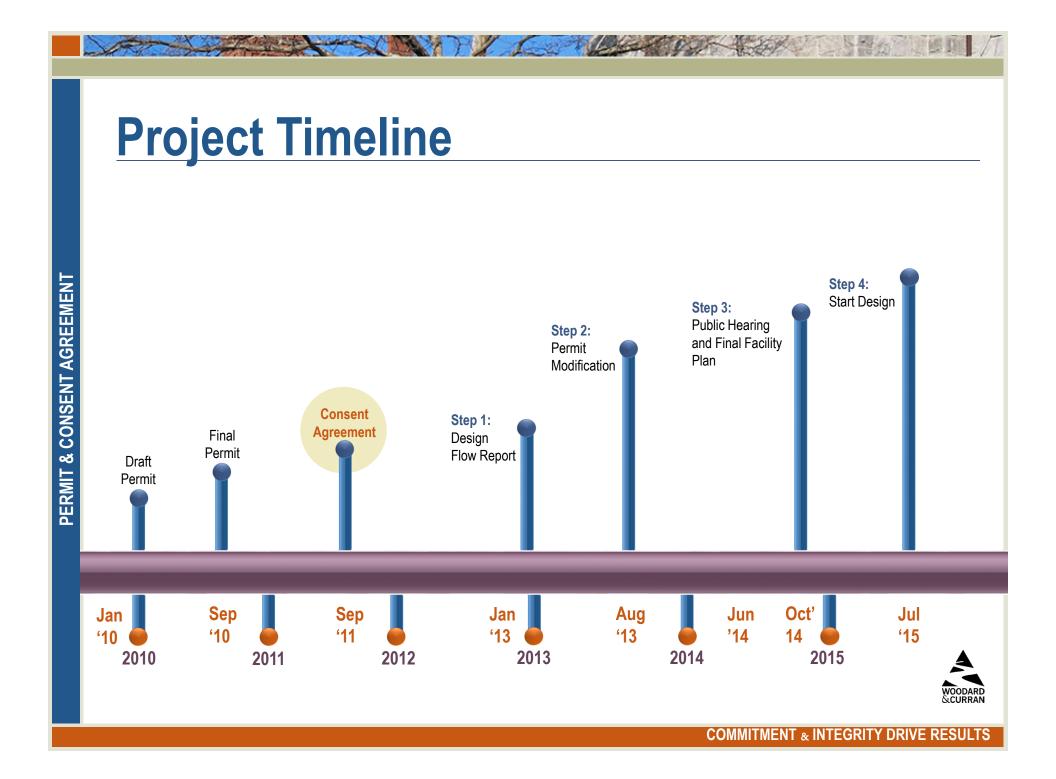






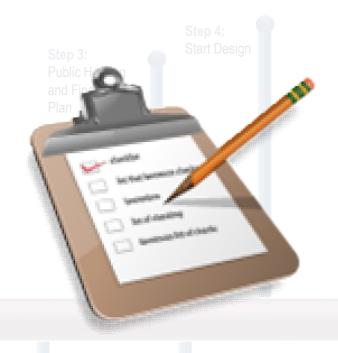
#### **Project Timeline** Woodard & Curran advocates for Town Lack of certainty that limits will achieve water quality goals; Resulting cost to Town too burdensome Not equitable with the permits for other communities. PERMIT & CONSENT AGREEMENT Step 4: Woodard & Curran develop alternates for permit Start Design Step 3: framework that can achieve DEM goals without **Public Hearing** Step 2: being overly burdensome to Town and Final Facility Permit Plan Modification Consent Step 1: Agreement Final Design **Permit** Flow Report Draft **Permit** Sep Aug Nov Jul Jan Sep Jan Jun **'10** 41 **'13** '14 '14 **'15 '10** 2014 2015 2010 2011 2012 2013

**COMMITMENT & INTEGRITY DRIVE RESULTS** 



### **Background on Consent Agreement**

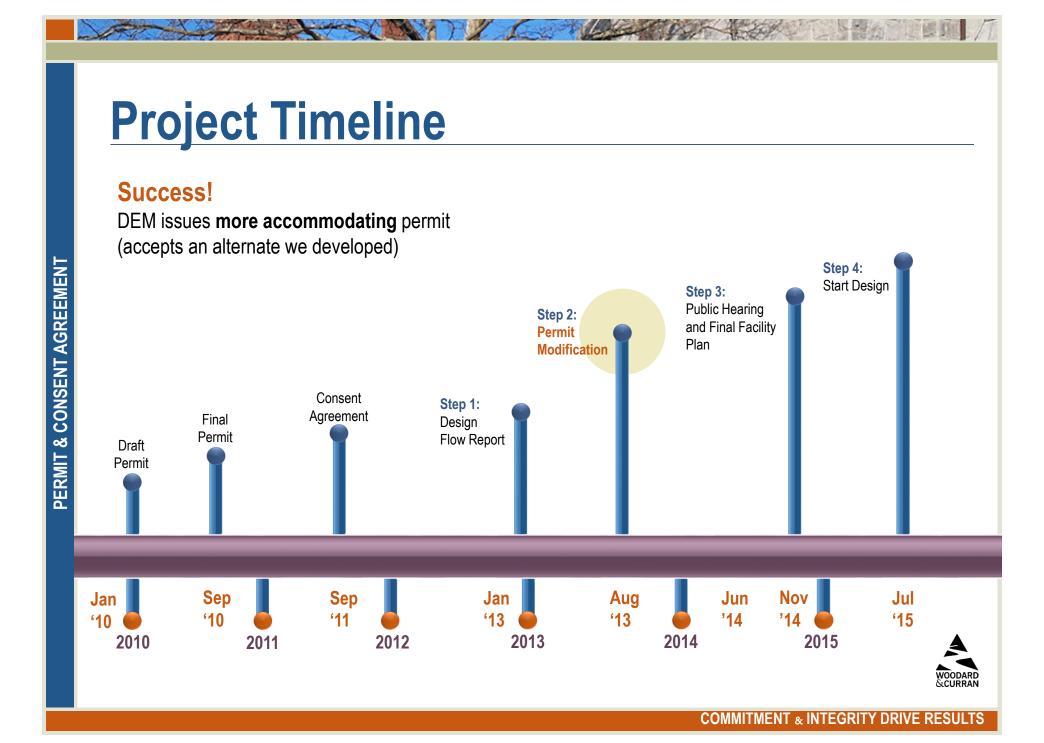
- Finalized in September 2011
- Negotiations between Warren, United Water, Woodard & Curran and State (DEM)
- Lays out steps for compliance:
  - **Design Flow Report**
  - Permit Modification (DEM) Report
  - Facility Plan
    - **Engineering and Permitting**
  - **Bidding and Construction**











### **Background on Permit Modification**

- Issued by DEM on August 28, 2013
- Contains limits that are more accommodating than the September 2010 Permit
  - Flow and nitrogen limits are seasonal versus monthly
    - Provide a great deal of flexibility for compliance
    - Provide capital and operations cost savings





#### **Project Timeline** Alternatives cost analysis Non-proprietary technology – lowest capital and O&M PERMIT & CONSENT AGREEMENT Step 4: Maximize existing infrastructure Start Design Step 3: **Public Hearing Team with Operators** Step 2: and Final Permit **Facility Plan** Modification Consent Step 1: Agreement Final Design **Permit** Flow Report Draft Permit Sep Nov Jan Sep Jan Aug Jun Jul **'10** 411 **'13** 14 '14 **'15** 2015 2010 2011 2012 2013 2014

**COMMITMENT & INTEGRITY DRIVE RESULTS** 

- Draft submitted to DEM May 2014
- Non-proprietary technology lowest capital and O&M
  Public hearing September 2014
- DEM final approval October 2014



PERMIT & CONSENT AGREEMENT





## Recommendede Nitrogen Removal Technology

- Non-proprietary technology lowest capital and O&M
- Variable Operating Mode re
- Maximum flexibility for responding to various conditions
  - Lowest capital cost
  - Lowest O&M costs
  - Not a proprietary process







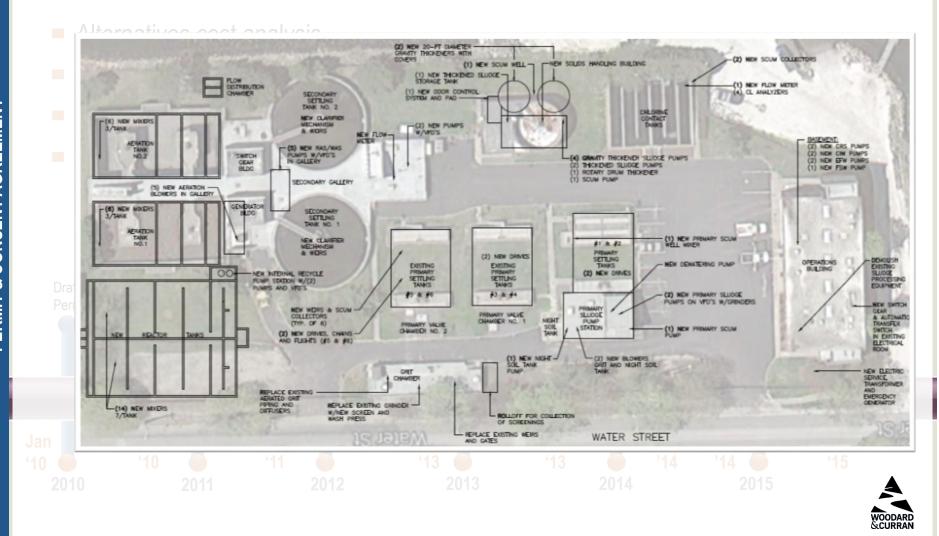


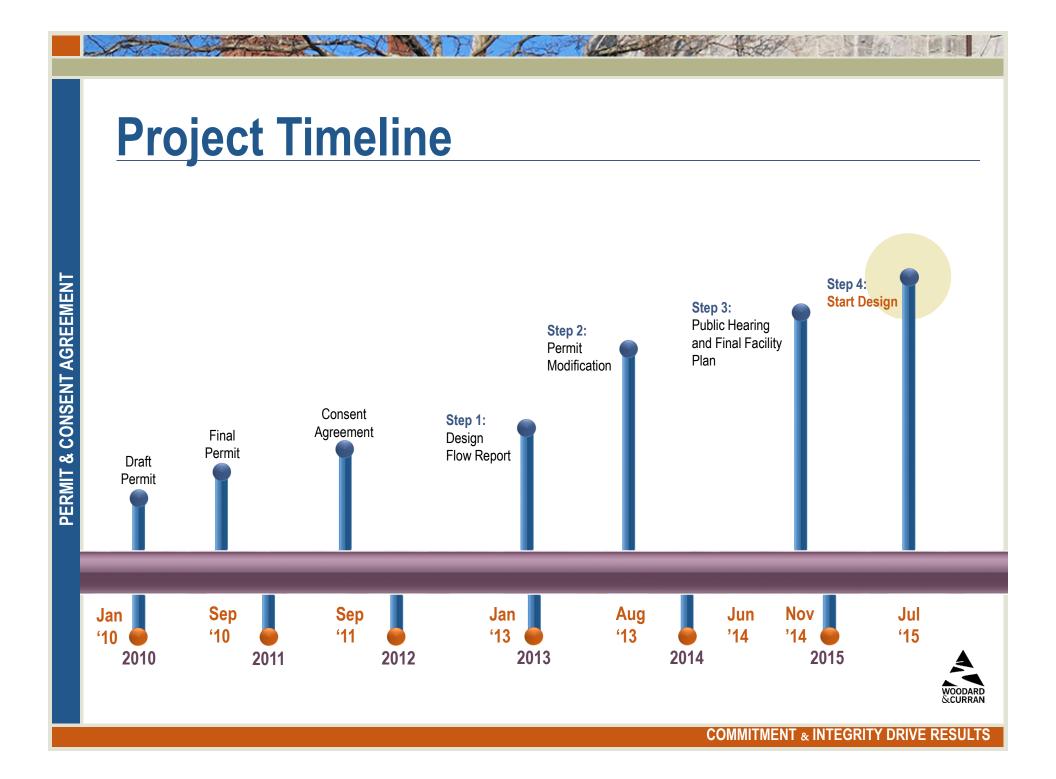






### Recommended WWTF Upgrades





### Schedulemeline

- 30-Percent Design –July 2015 to October 2015
- Final Design and Permitting –
  November 2015 to September 2016
- DEM Review and issue Order of Approval September 2016 to January 2017
- Bidding and Construction –
  January 2017 to June 2018





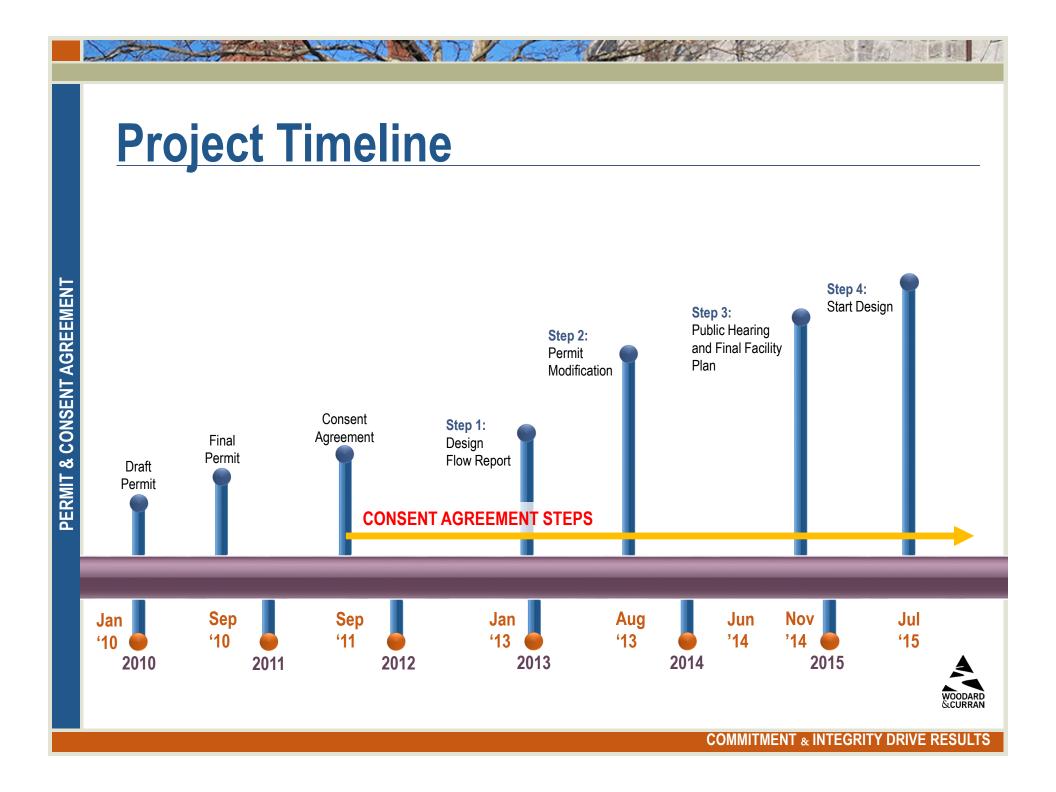


## **Funding Imeline**

- Capital The State Revolving Fund (SRF)
  - ➤ Co-managed by the R.I. Clean Water Finance Agency (RICWFA) & DEM
  - Provides below market rate loans for wastewater facilities
  - Every major treatment facility upgrade in RI to date has received funding through this program
  - Warren was on the FY2014-2015 priority list
- Energy Efficiency Grants Flow Report
- Design Phase proposal includes a financial evaluation to explore the feasibility of establishing a sewer utility









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